



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO15065**

Purchase Order Date 9/30/2011

PO Print Date 9/30/2011

Page Number 2 of 4

**Order From :**

VC-MET001

METAUX CASTLE

A.M. CASTLE & CO. (CANADA) INC. - BOX B9204 PO BOX 9100

TORONTO, ON M4Y 3A5

CA

**Contact Name**

**Vendor Phone**

514 694 9575

**Vendor Fax**

514 695 3281

**Vendor Account Nbr**

**Buyer**

Brigitte Golden

**Requisition Nbr**

**Tax Resale Nbr**

10127-2607

**Terms**

Net 30

**Currency**

CAD

**FOB**

Destination-Collect

**Special Inst:** 6061-T6/T651/T6510/T6511/T62  
ALUMINUM BAR  
SPEC; QQ-A-225/8 OR AMS-QQ-A-225/8  
(OR AMS 4117/4128/4115/4116)  
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR  
AMS 4160)  
OR ASTM B211 OR ASTM B221

4	M6061T6B0.750X06.000	6061T6 BAR .750 X 6.00	10/4/2011 Yes	24.00 f	Yours ppd	\$12.3300	\$295.92
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**Special Inst:** 6061-T6/T651/T6510/T6511/T62  
ALUMINUM BAR  
SPEC: QQ-A-225/8 OR AMS-QQ-A-225/8  
(OR AMS 4117/4128/4115/4116)  
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR  
AMS 4160)  
OR ASTM B211 OR ASTM B221

5	M6061T6B1.250X01.250	6061-T6 Bar 1.25 x 1.25	10/4/2011 Yes	20.00 f	Yours ppd	\$3.9400	\$78.80
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**Special Inst:** SAME AS ABOVE

6	M174B1.250X02.000	17-4 SS Bar 1.250 x 2.00	10/4/2011 Yes	20.00 f	Yours ppd	\$56.9100	\$1,138.20
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**Special Inst:** 17-4 PM SS BAR PER AMS 5604/5643  
GRAIN MUST BE ALONG LENGTH OF  
BAR  
MIN: YIELD TENSILE  
STRENGTH=100KSI  
MIN: ULTIMATE TENSILE  
STRENGTH=150KSI

No substitution or deviation without  
consent.  
Certificate of Conformity or Material  
Certification required when applicable

Change Nbr: 1

Change Date: 9/30/2011



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO15065**

Purchase Order Date 9/30/2011

PO Print Date 9/30/2011

Page Number 3 of 4

**Order From :**

VC-MET001

METAUX CASTLE

A.M. CASTLE & CO. (CANADA) INC. - BOX B9204 PO BOX 9100

TORONTO, ON M4Y 3A5

CA

**Contact Name**

**Vendor Phone**

514 694 9575

**Vendor Fax**

514 695 3281

**Vendor Account Nbr**

**Buyer**

Brigitte Golden

**Requisition Nbr**

**Tax Resale Nbr**

10127-2607

**Terms**

Net 30

**Currency**

CAD

**FOB**

Destination-Collect

7	M6061T6B1.500X01.500	6061-T6 Bar 1.50 x 1.50	10/4/2011 Yes	12.00 f	Yours ppd	\$5.0600	\$60.72
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**Special Inst:** SAME AS LINE # 5

8	M6061T6R3.500	6061 RD bar 3.50	10/4/2011 Yes	12.00 f	Yours ppd	\$27.6200	\$331.44
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**Special Inst:** 6061-T6/T651/6510/T6511/T62  
ALUMINUM ROUND BAR  
SPEC: QQ-A-225/8 OR AMS-Q-A-  
225/8(OR AMS 4117/4128/4115/4116)  
OR QQ-A-200/8OR AMS-QQ-A-200/8 (OR  
AMS 4160)  
OR ASTM B211 OR ASTM B221

9	M6061T6R0.750	6061-T6 Round Bar .750"	10/4/2011 Yes	40.00 f	Yours ppd	\$1.3100	\$52.40
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**Special Inst:** SAME AS ABOVE

10	M304R1.500	304 round bar 1.500	10/4/2011 Yes	12.00 f	Yours ppd	\$16.4000	\$196.80
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**Special Inst:** AISI 304/316 SS ROUND BAR  
(NOTE: AISI 303 NOT ACCEPTABLE)  
SPEC: ASTM A276

11	M6061T6H1.000	6061-T6 HexBar 1.00	10/4/2011 Yes	12.00 f	Yours ppd	\$3.8800	\$46.56
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Certification required when applicable

Change Nbr: 1

Change Date: 9/30/2011



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
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## PURCHASE ORDER

Purchase Order ID **PO15065**

Purchase Order Date 9/30/2011

PO Print Date 9/30/2011

Page Number 4 of 4

**Order From :**

VC-MET001

METAUX CASTLE

A.M. CASTLE & CO. (CANADA) INC. - BOX B9204 PO BOX 9100

TORONTO, ON M4Y 3A5

CA

**Contact Name**

**Vendor Phone**

514 694 9575

**Vendor Fax**

514 695 3281

**Vendor Account Nbr**

**Buyer**

Brigitte Golden

**Requisition Nbr**

**Tax Resale Nbr**

10127-2607

**Terms**

Net 30

**Currency**

CAD

**FOB**

Destination-Collect

**Special Inst:** 6061-T6/T651T6510/T6511/T62  
ALUMINUM HEX BAR  
SPEC: QQ-A-225/8 OR AMS-QQ-A-225/8  
(OR AMS4117/4128/4115/4116)  
OR QQ-A-200/8 OR AMS-QQ-A-200/8(OR  
AMS 4160) OR ASTM B211 OR ASTM  
B221

12	M6061T6B1.500X04.000	6061T6 Bar 1.500 x 4.00	10/4/2011 Yes	12.00 f	Yours ppd	\$15.8800	\$190.56
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**Special Inst:** SAME AS LINE #4

13	M6061T6B1.500X02.000	6061-T6 Bar 1.50 x 2.00	10/4/2011 Yes	12.00 f	Yours ppd	\$7.9300	\$95.16
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**Special Inst:** SAME AS ABOVE

**PO Total:** \$5,495.36

No substitution or deviation without  
consent.  
Certificate of Conformity or Material  
Certification required when applicable

Change Nbr: 1

Change Date: 9/30/2011

## Brigitte Golden

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**From:** Desbiens, Marc <mdesbien@amcastle.com>  
**Sent:** Friday, September 30, 2011 10:19 AM  
**To:** Brigitte Golden  
**Subject:** RE: RFQ

Hi Brigitte,

12 x 6061T6 Bar 1.500 x 1.500 \$ 5.06 Ft ✓  
12 x 6061T6 round bar 3.500 \$ 27.62 Ft ✓  
12 x 4140N bar 1.500 x 1.500 \$ 11.70 Ft (4140 annealed) — xby  
40 x 6061T6 round bar .750 \$ 1.31 Ft ✓  
12 x 304 round bar 1.500 \$ 16.40 Ft ✓  
12 x 6061T6 Hex bar 1.000 \$ 3.88 Ft ✓  
12 x 6061T6 bar 1.500 x 4.000 \$ 15.88 Ft ✓  
12 x 6061T6 Bar 1.250 x 4.500 offer 1.50" x 5.00" \$ 19.87 Ft — xby  
12 x 6061T6 Bar 1.500 x 2.000 \$ 7.93 Ft ✓

60 x 4130N Bar .500 x 3.00 \$ 26.10 Ft ✓  
80 x 304 Bar .500 x 2.500 \$ 13.10 Ft ✓  
24 x 6061T6 Bar .750 x 8.000 \$ 16.45 Ft ✓  
24 x 6061T6 Bar .750 x 6.000 \$ 12.33 Ft ✓  
20 x 6061T6 Bar 1.250 x 1.250 \$ 3.94 Ft ✓  
20 x 17-4PH Bar 1.250 x 2.00 \$ 56.91 Ft ✓

7-8 days except for 60 x 4130N Bar .500 x 3.00----> 10 days

Thank You

This E-mail may contain proprietary information and may be confidential. You are to treat this material in accordance with your company's confidentiality policies and limit any distribution accordingly. If you are not the intended recipient of this E-mail, you are hereby notified that any dissemination, distribution or copying of this message is strictly prohibited. If you received this message in error, please delete it immediately.



Castle Metals®

A. M. Castile & Co.

PACKING SLIP

Page 1 of 1

Shipment No:1018982

<b>Ship From:</b> A. M. Castile & Co. (Canada) Inc. MONTREAL 835-SELKIRK AVENUE POINTE CLAIRE, QUEBEC H9R 3S2		<b>Sold To:</b> DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA		<b>Ship To:</b> DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CAN		<b>Deliver To:</b> DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	
<b>Date Shipped</b>	<b>F.O.B.</b>	<b>Freight Terms</b>		<b>Carrier</b>	<b>BOL No</b>		
12-OCT-2011	ORIGIN	Prepaid		LOCAL_FLEET	1018982-5		

<b>Shipment Details</b>	<b>Final Destination Branch - MON</b>
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<b>Order No</b>	<b>Line No</b>	<b>Item No</b>	<b>Description</b>
1742903	1	8102	1.5000.SQ.6061.T6511.ALUMINUM.EXT.144.0000 SPECIFICATIONS: AMS QQ-A-200/8,ASTM B221
<b>Purchase Order No</b>	<b>Part Number</b>	<b>Ordered Qty</b>	<b>Invoice Qty</b>
15065		12.00 FT	12 FT
<b>Details</b>			
<b>Delivery No.</b>	<b>Mill</b>	<b>Heat Number</b>	<b>Mech Id</b>
97910333		20215091	1
		<b>PCS</b>	<b>Width (IN)</b>
		1	144
			<b>Length (IN)</b>
			31.68
			<b>Shipped Qty(LBS)</b>
			31.68

These commodities/technologies are subject to US Export Administration & US State Dept. Regulations and, if intended for export, were/are exported thereunder. Diversion contrary to US Law is Prohibited.	
We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castile & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit.	
Reviewed by Authorized Castle Metals Representative:	Date: Name:

Ca/10/12

# Certified Inspection Report

Sapa Industrial Extrusions  
53 POTTSVILLE STREET



CRESSONA, PA  
17929-0187

Sapa Extrusions Inc., a Subsidiary of Sapa AB

## Invoice To Customer

A M CASTLE & COMPANY  
3400 NORTH WOLF ROAD  
Attn: Susan Queisser

FRANKLIN PARK, IL - 60131

## Ship To Customer

A M CASTLE & COMPANY  
26800 MILES RD

BEDFORD HEIGHTS, OH - 44146

8/10/13

Sales Order Number	Line No.	Customer P/O	Cert Number	Page
1100093032	1	10-44877-1	SAPA98075	1 of 2
			Cert Creation Date	Cert Print Date
			02-AUG-09	02-AUG-09

Quantity Shipped	Date Shipped	Item Description
1010	02-AUG-09	Extruded Square Bar
B/L	Item No.	1500 SQ
64344	G03363678	144000 IN LN
Delivery Id	Item No. Rev	6061 / T6511
4034276	--	FIN M-MILL
Customer/Part No.		W/F 2.646 F 02 CS 2.1
8102		Marking CONTINUOUS;
		ASTMB221 REV 08
		AMS-QQ-A-200/8 REV
		ASMESB221 REV 99
		UNS#A96061 REV

Applicable Specifications, Revisions and Exceptions

COMPOSITION NOTE: The values for 'Others Each' and 'Others Total' have met the limits as shown on this certified inspection report. Remainder is Aluminum.

## Legal Statement

We hereby certify that, unless otherwise indicated, the material covered by this report has been manufactured, inspected, and tested in accordance with, and has been found to meet, the applicable requirements described herein, including any specifications forming a part of the description and that samples representative of the material met the composition and had the mechanical properties shown on the face of this certification. Also, note that mercury is not a normal contaminant in aluminum alloys and neither it nor any of its compounds are used in the manufacture of our product. This certification is not to be reproduced in partial form without prior written approval of our Quality Assurance Dept.

Signature And Title

*Dave A Lukasak*

Dave A Lukasak

Tech/Quality Manager

02-AUG-09

## Quantities per Lot / Packages

Package Number	Lot Number	Quantity	UOM	Weight
G12-PKG1084874	20215091	16	PCS	Gross 510 Net 505
G12-PKG1084877	20215091	16	PCS	Gross 510 Net 505

CASTLE METALS CORP

DATE RCVD 8/3/09

IAC SKD

APPROVED BY TM

## Composition Limits

Alloy	Si		Fe		Cu		Mn		Mg		Cr		Zn	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
6061	0.40	0.8	--	0.7	0.15	0.40	--	0.15	0.8	1.2	0.04	0.35	--	0.25



Sapa Industrial Extrusions  
53 POTTSVILLE STREET  
CRESSONA, PA  
17929-0187

## Certified Inspection Report

Sales Order Number 1100093032	Line No. 1	Customer P/O 10-44877-1	Cert Number SAPA98075	Page Page 2 of 2
			Cert Creation Date 02-AUG-09	Cert Print Date 02-AUG-09

Alloy	Ti		Bi		Pb		Others Each		Others Total	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
6061	---	0.15	---	---	---	---	---	0.05	---	0.15

### Composition Results

Heat / Cast	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Bi	Pb	Others Each	Others Total
5021424	0.7	0.23	0.27	0.03	0.9	0.04	0.04	0.01	---	---	---	---

### Mechanical Property - Test Limits

Test Type		UTS - L		TYS - L		EL 4D-Long		
UOM		KSI		KSI		FCT		
# of Test		--		--		--		
Test Temper	Lot Number	# of Tests	MIN Value	MAX Value	MIN Value	MAX Value	MIN Value	MAX Value
T6511	20215091	4	42.1	44.3	37.1	40.7	16.6	17.3

### Cert Notes

Products manufactured with a T6511 temper also meet T6 temper requirements.

Yield strength has been determined by the 0.2% offset method

All Alloys Produced at Sapa Industrial Extrusions comply with 0.4% Maximum Lead per RoHS, with the exception of 6262 alloy

Made in USA

**Castle Metals®**

A. M. Castle &amp; Co.

## PACKING SLIP

Page 1 of 1

Shipment No:1018982

<b>Ship From:</b> A. M. Castle & Co. (Canada) Inc. MONTREAL 835-SELKIRK AVENUE POINTE CLAIRE, QUEBEC H9R 3S2		<b>Sold To:</b> DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA		<b>Ship To:</b> DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CAN		<b>Deliver To:</b> DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	
<b>Date Shipped</b> 12-OCT-2011	<b>F.O.B.</b> ORIGIN	<b>Freight Terms</b> Prepaid		<b>Carrier</b> LOCAL_FLEET	<b>BOL No</b> 1018982-5		

<b>Shipment Details</b>	<b>Final Destination Branch - MON</b>
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<b>Order No</b> 1742903	<b>Line No</b> 2	<b>Item No</b> 21200	<b>Description</b> 3.5000 RD.6061.T6511.ALUMINUM.EXT.144.0000 SPECIFICATIONS: AMS QQ-A-200/8,ASTM B221			
<b>Purchase Order No</b> 15065	<b>Part Number</b>		<b>Ordered Qty</b> 12.00 FT	<b>Invoice Qty</b> 12 FT		
<b>Details</b>						
<b>Delivery No.</b> 97710319	<b>Mill</b> SERVICE CENTER METALS LLC	<b>Heat Number</b> 201113325	<b>Mech Id</b> 1	<b>PCS</b>	<b>Width (IN)</b>	<b>Length (IN)</b> 144
					<b>Shipped Qty(LBS)</b> 135.77	

These commodities/technologies are subject to US Export Administration & US State Dept. Regulations and, if intended for export, were/are exported thereunder. Diversion contrary to US Law is Prohibited.	
We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material out to the correct size, or material cut by the customer cannot be returned for credit.	
Reviewed by Authorized Castle Metals Representative:	Date: <i>Oct 11/10/11</i> Name: <i>CS</i>



**Castle Metals FP**

HEAT NUMBER 20111.3325

MECHANICAL ID \_\_\_\_\_

ITEM CODE 21200

LOT NUMBER \_\_\_\_\_

PO NUMBER 132770

RECEIPT DATE 9/12/11

SUPPLIER SCM

SPECIFICATION \_\_\_\_\_

LCS NO

COMMENT \_\_\_\_\_

APPROVED BJ



SERVICE CENTER METALS  
5850 Quality Way  
Prince George, VA 23875

# CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

OUR ORDER NUMBER	ITEM
134567	1

BILL TO	MANIFEST NUMBER	DIE NUMBER	DATE OF SHIPMENT
A. M. Castle and Company	139639	RD0026	9/8/2011
SHIP TO	CUSTOMER PO	ALLOY / TEMPER	SALESPERSON
A. M. Castle and Company	132770	6061-T6511	David Schroeder
Quantity Certified	CUSTOMER PART NUMBER	DESCRIPTION	
1,900 lbs	21200	ROD 3.500 +/- .012	

CERTIFICATION
ASTM-B221-08 StencilContinuous
SPECIFICATION
AMS-QQA-200/8
SPECIFICATION
A96061-03

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. SCM extrusions are manufactured in the USA from ingot melted and cast in the United States or Canada.

Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6

## Mechanical Properties

Test No.	Lot No.	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
91	201113325	08/25/11	52.3	48.7	15.0
92	201113325	08/25/11	52.8	49.4	15.0

## Chemical Composition for Aluminum Alloy 6061

Cast Number	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti
C29J1005	6061	0.74	0.38	0.32	0.09	0.89	0.08	0.01	0.01
C29J1007	6061	0.75	0.37	0.32	0.11	0.89	0.10	0.01	0.01

Melted In  
United States of America

Print Date: 9/8/2011

Rev. 9/06/07 - UNIS

Calvin J. Wiggins, Director of Quality & Technical Services

**Castle Metals®**

A. M. Castle &amp; Co.

## PACKING SLIP

Page 1 of 1

Shipment No:1018982

<b>Ship From:</b> A. M. Castle & Co. (Canada) Inc. MONTREAL 835-SELKIRK AVENUE POINTE CLAIRE, QUEBEC H9R 3S2		<b>Sold To:</b> DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA		<b>Ship To:</b> DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CAN		<b>Deliver To:</b> DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	
<b>Date Shipped</b> 12-OCT-2011	<b>F.O.B.</b> ORIGIN	<b>Freight Terms</b> Prepaid		<b>Carrier</b> LOCAL_FLEET	<b>BOL No</b> 1018982-5		

<b>Shipment Details</b>		<b>Final Destination Branch - MON</b>	
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<b>Order No</b> 1742903	<b>Line No</b> 4	<b>Item No</b> 21162	<b>Description</b> 0.7500.RD.6061.T6511.ALUMINUM.EXT.144.0000 SPECIFICATIONS: AMS QQ-A-200/8,ASTM B221				
<b>Purchase Order No</b> 15065		<b>Part Number</b>		<b>Ordered Qty</b> 48.00 FT	<b>Invoice Qty</b> 48 FT		
<b>Details</b>							
<b>Delivery No.</b> 97917309	<b>Mill</b> SERVICE CENTER METALS LLC	<b>Heat Number</b> 201016911	<b>Mech Id</b> 4	<b>PCS</b>	<b>Width (IN)</b>	<b>Length (IN)</b> 144	<b>Shipped Qty(LBS)</b> 25.44

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We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit.							
Reviewed by Authorized Castle Metals Representative:				<b>Date:</b>		<b>Name:</b>	

*Rec'd 10/13*



SERVICE CENTER METALS  
5850 Quality Way  
Prince George, VA 23875

# CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

OUR ORDER NUMBER	119315	ITEM	1
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BILL TO A. M. Castle and Company	MANIFEST NUMBER 121548	DIE NUMBER RD0003	DATE OF SHIPMENT 1/4/2011	CERTIFICATION ASTM-B221-08 StencilContinuous
SHIP TO A. M. Castle and Company	CUSTOMER PO 87540	ALLOY/TEMPER 6061-T6511	SALESPERSON David Schroeder	SPECIFICATION AMS-QQA-200/8
Quantity Certified	5,396 lbs	865pcs	21162	SPECIFICATION A96061-03

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6

SCM extrusions are manufactured in the USA from ingot melted and cast in the United States or Canada.

**Castle Metals FP**

HEAT NUMBER 201016911 (201016911)  
MECHANICAL ID \_\_\_\_\_  
ITEM CODE 21162  
LOT NUMBER \_\_\_\_\_  
PO NUMBER 87540  
RECEIPT DATE 1-7-2011  
SUPPLIER SCM  
SPECIFICATION \_\_\_\_\_  
LCS \_\_\_\_\_  
COMMENT AD  
APPROVED DL

RB  
next PR  
5/4/10/13

## Chemical Composition for Alloy 6061

Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Other	Each	Total	AI	Melted In
6061	Max 0.8	0.7	0.40	0.15	1.2	0.35	0.25	0.15	0.05	0.15	0.15	Remainder	
	Min 0.40	-	0.15	-	0.8	0.04	-	-	-	-	-	-	

United States of America

*Calvin J. Wiggins*

Calvin J. Wiggins, Director of Quality & Technical Services

Print Date: 1/4/2011



SERVICE CENTER METALS  
5850 Quality Way  
Prince George, VA 23875

# CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

OUR ORDER NUMBER	119315	ITEM	1
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BILL TO

A. M. Castle and Company

SHIP TO

A. M. Castle and Company

Quantity Certified 5,396 lbs 865pcs

MANIFEST NUMBER

121548

CUSTOMER PO

87540

CUSTOMER PART NUMBER

21162

DIE NUMBER

RD0003

ALLOY/TEMPER

6061-T6511

DESCRIPTION

ROD .750 +/1.004

DATE OF SHIPMENT

1/4/2011

SALESPERSON

David Schroeder

CERTIFICATION

ASTM-B221-08 StencilContinuous

SPECIFICATION

AMS-QQA-200/8

SPECIFICATION

A96061-03

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. SCM extrusions are manufactured in the USA from ingot melted and cast in the United States or Canada.

Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6

## Mechanical Properties

Test No. Lot No.

Test No.	Lot No.	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
1	201016911	12/21/10	49.7	46.6	18.9
2	201016911	12/21/10	49.3	46.2	17.2
3	201016911	12/21/10	49.1	46.0	18.0
4	201016911	12/21/10	49.2	46.0	17.5
5	201016911	12/21/10	48.8	45.7	16.6
6	201016911	12/21/10	49.3	46.3	18.9
7	201016911	12/21/10	49.5	46.4	18.0
8	201016911	12/21/10	49.5	46.4	18.8
9	201016911	12/21/10	48.8	45.4	16.6
10	201016911	12/21/10	49.1	46.0	15.5
11	201016911	12/21/10	49.2	46.2	15.5

Swich

Print Date: 1/4/2011

Calvin J. Wiggins, Director of Quality & Technical Services

**Castle Metals®**

A. M. Castle &amp; Co.

**PACKING SLIP**

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Shipment No:1018982

<b>Ship From:</b> A. M. Castle & Co. (Canada) Inc. MONTREAL 835-SELKIRK AVENUE POINTE CLAIRE, QUEBEC H9R 3S2		<b>Sold To:</b> DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA		<b>Ship To:</b> DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CAN		<b>Deliver To:</b> DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA			
<b>Date Shipped</b> 12-OCT-2011		<b>F.O.B.</b> ORIGIN		<b>Freight Terms</b> Prepaid		<b>Carrier</b> LOCAL FLEET		<b>BOL No</b> 1018982-5	

<b>Shipment Details</b>		<b>Final Destination Branch - MON</b>	
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<b>Order No</b> 1742903		<b>Line No</b> 5		<b>Item No</b> 14836		<b>Description</b> 1.5000.RD.304/304L.STAINLESS.CF.ANN.132.0000-156.0000 SPECIFICATIONS: AISI 304/304L,AMS 5639,AMS 5647,AMS QQ-S-763,ASME SA182,ASME SA193 B8,ASME SA479,ASTM A182,ASTM A276,ASTM A479,ASTM A484,UNS S30400,UNS S30403,ASTM A193 GR B8							
<b>Purchase Order No</b> 15065		<b>Part Number</b>		<b>Ordered Qty</b> 12.00 FT		<b>Invoice Qty</b> 12 FT							
<b>Details</b>													
<b>Delivery No.</b> 97710319		<b>Mill</b> NORTH AMERICAN STAINLESS		<b>Heat Number</b> 9NN2		<b>Mech Id</b> PCS		<b>Width (IN)</b> 144		<b>Length (IN)</b> 72.12		<b>Shipped Qty(LBS)</b>	

These commodities/technologies are subject to US Export Administration & US State Dept. Regulations and, if intended for export, were/are exported thereunder. Diversion contrary to US Law is Prohibited.	
We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material out to the correct size, or material cut by the customer cannot be returned for credit.	
Reviewed by Authorized Castle Metals Representative:	
Date: _____ Name: _____	

Castle Metals FP

HEAT NUMBER 9NN2  
MECHANICAL ID \_\_\_\_\_  
ITEM CODE 14836  
LOT NUMBER \_\_\_\_\_  
PO NUMBER 118950  
RECEIPT DATE 8/26/11  
SUPPLIER NAS  
SPECIFICATION \_\_\_\_\_  
LCS NO  
COMMENT \_\_\_\_\_  
APPROVED LSJ